

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number

TO: Kevin Weddington Location: rem/3a65/3c70

Art Unit: 1614

Wednesday, April 13, 2005

Case Serial Number: 10/633402

From: Edward Hart

Location: Biotech-Chem Library

REM-1A55

Phone: 571-272-2512

edward.hart@uspto.gov

Search Notes

Examiner Weddington,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart



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SEARCH REQUEST FORM

Scientific and Technical Information Center

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If more than one search is subn ************************************	nitted, please priorit ********* search topic. and describ keywords, synonyms, acri that may have a special	tize searches in order of need. **********************************
Title of Invention:		
Inventors (please provide full names):		
Earliest Priority Filing Date:		<u> </u>
For Sequence Searches Only Please inclu appropriate serial number.	de all pertinent information	ı (parent, child, divisional, or issued patent numbers) along with th
	(me protect	ing non-mucosal tissue
acquiret damage from	om radiation	therapy by administering
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FILE 'HCAPLUS' ENTERED AT 14:14:12 ON 13 APR 2005

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L24 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:759809 HCAPLUS

DOCUMENT NUMBER: 141:271543

Methods of treating and preventing proliferative TITLE: disease with antiplatelet or anticlotting agent in

combination with antineoplastic agent and/or

DATE

radiation therapy

Dicker, Adam P.; Burd, Randy; Sidhu, Kulbir INVENTOR(S):

DATE

PATENT ASSIGNEE(S): Technology Center, USA

U.S. Pat. Appl. Publ., 16 pp. SOURCE:

KIND

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

APPLICATION NO. _____ ---------US 2004180812 A1 20040916 US 2003-737360 20031215 P 20021213 PRIORITY APPLN. INFO.: US 2002-433471P The present invention provides methods of treating proliferative disease in a patient (e.g., a mammal such as a human) in need of such treatment, said treatment comprising administering, concurrently or sequentially, an effective amount of (1) an anti-platelet or anti-clotting agent and (2) an anti-neoplastic agent and/or radiation therapy. A second method of treatment comprises administering Plavix, also known as clopidogrel, or SR 25909 to a patient in need of such treatment. An addnl. method comprises administering an anti-platelet or anti-clotting agent to an individual at risk for developing proliferative disease. methods of the present invention are particularly useful for the treatment or prevention of various cancers, especially epithelial cancers, e.g., prostate cancer, lung cancer, breast cancer, colorectal cancer, and pancreatic cancer. In preferred embodiments, the anti-platelet agent is combined with one of the following antineoplastic agents: taxotere, gemcitabine, paclitaxel (Taxol), 5-Fluorouracil (5-FU), cyclophosphamide (Cytoxan), temozolomide, or Vincristine. Treatment of human U87 gliobastoma tumor xenografts in mice with Plavix alone resulted in a 5 day tumor growth delay (TGD). Treatment of the tumors with X-ray radiation increased the TGD to 12 days, while treatment with radiation and Plavix combined increased the TGD to 16 days (4 days more than radiation alone).

IT 133652-38-7, Reteplase 191588-94-0, Tenecteplase RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);

THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antiplatelet or anticlotting agent in combination with antineoplastic agent and/or radiation therapy for treating and preventing proliferative disease)

L24 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:681680 HCAPLUS

DOCUMENT NUMBER: 141:200162

TITLE: Mitochondrial malate dehydrogenase DNA fragmentation

activator fragment and related conjugated proteins and

antibodies for cancer therapy

INVENTOR(S): Wright, Susan C.; Larrick, James W.; Nock, Steffen R.;

Wilson, David S.

PATENT ASSIGNEE(S): Palo Alto Institute of Molecular Medicine, USA

SOURCE: PCT Int. Appl., 225 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                       KIND
                              DATE
                                         APPLICATION NO.
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                                       WO 2004-US2974 20040202
    WO 2004070012
                        A2
                             20040819
        W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,
            BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,
            CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
            ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
            IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC,
            LK, LR, LS, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MX,
            MZ, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
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            GQ, GW, ML, MR, NE, SN, TD, TG
    US 2004191843
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                           20040930
                                         US 2004-770668
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PRIORITY APPLN. INFO.:
                                         US 2003-444191P
                                                            P 20030203
                                         US 2003-460855P
                                                            P 20030408
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AB The invention provides compns. comprising amino acid sequences that have cell killing activity, nucleic acid sequences encoding them, antibodies that specifically bind with them, and methods of using these compns. for increasing and/or reducing cell death, detecting cell death, diagnosing diseases associated with altered cell death, and methods for identifying test agents that alter cell death. More particularly, the invention provides an activator of DNA fragmentation (ADF), a C-terminal fragment of mitochondrial MDH (malate dehydrogenase), which can induce DNA fragmentation by activating nuclease endogenous to normal nuclei. The invention also provides a conjugate comprising a cell death-inducing mol. (such as ADF) and a cell mol.-recognizing compound, and use of said conjugate in killing cancer cells. Specifically, the invention relates that conjugate can be composed of said ADF and/or other mitochondrial/non-mitochondrial cell death-inducing proteins (such as Htra/Omi, apoptosis inducing factor, Smac/DIABLO, EndoG, Nix, Nip3, CIDE-B, gelsolin, Bcl-2, Bax, Bad, Bid, caspase-activated DNase, DNase I or DNase II), and that cell mol.-recognizing compds. can include antibodies or growth factors. In particular embodiments, recombinant ADF proteins, ADF-Ant (antennapedia) and rADF-bFGF, are shown to be cytotoxic to a variety to tumor cell types, and even drug-resistant cancer cell

lines.

IT 742221-52-9

RL: PRP (Properties)

(unclaimed protein sequence; mitochondrial malate dehydrogenase DNA fragmentation activator fragment and related conjugated proteins and antibodies for cancer therapy)

IT 253328-23-3

RL: PRP (Properties)

(unclaimed sequence; mitochondrial malate dehydrogenase DNA fragmentation activator fragment and related conjugated proteins and antibodies for cancer therapy)

L24 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:100955 HCAPLUS

DOCUMENT NUMBER:

140:157441

TITLE:

Cyclooxygenase- 2 selective inhibitors, compositions

and methods of use

INVENTOR(S):

Garvey, David S.; Khanapure, Subhash P.; Ranatunge,

Ramani R.; Richardson, Stewart K.; Schroeder, Joseph

D.

PATENT ASSIGNEE(S):

Nitromed, Inc., USA

SOURCE:

PCT Int. Appl., 140 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.		KINI)	DATE		1	APPL	ICAT	ION	NO.		D	ATE	
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WO 2004	010945		A2		2004	0205	1	WO 2	003-1	JS23	605		2	0030	729
WO 2004	010945		A3		2004	0422									
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OTHER SOURCE	(S):	1	MARE	PAT	140:	15744	11								

The invention describes novel cyclooxygenase 2 (COX-2) selective inhibitors and novel compns. comprising at least one cyclooxygenase 2 (COX-2) selective inhibitor, and, optionally, at least one compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase, and/or at least one therapeutic agent. The invention also provides novel kits comprising at least one COX-2 selective inhibitor, optionally nitrosated and/or nitrosylated, and, optionally, at least one nitric oxide donor, and/or, optionally, at least one therapeutic agent. The novel cyclooxygenase 2 selective inhibitors of the invention can be optionally nitrosated and/or nitrosylated. The invention also provides methods for treating inflammation, pain and fever; for treating and/or improving the gastrointestinal properties of COX-2 selective inhibitors;

for facilitating wound healing; for treating and/or preventing renal and/or respiratory toxicity; for treating and/or preventing other disorders resulting from elevated levels of cyclooxygenase-2; and for improving the cardiovascular profile of COX-2 selective inhibitors.

IT 56-85-9, L-Glutamine, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiinflammatory cyclooxygenase-2 selective inhibitors)

L24 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:41217 HCAPLUS

DOCUMENT NUMBER:

140:111135

TITLE:

Preparation of nitrosated nonsteroidal

antiinflammatory compounds

INVENTOR(S):

Earl, Richard A.; Ezawa, Maiko; Fang, Xinqin; Garvey,
David S.; Gaston, Ricky D.; Khanapure, Subhash P.;
Letts, Gordon L.; Lin, Chia-En; Ranatunge, Ramani R.;

Richardson, Stewart K.; Schroeder, Joseph D.;

Stevenson, Cheri A.; Wey, Shiow-Jyi

PATENT ASSIGNEE(S):

Nitromed, Inc., USA

SOURCE:

PCT Int. Appl., 145 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

211811211

PATENT INFORMATION:

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OTHER SOURCE(S):

MARPAT 140:111135

GI

AB Title compds. RnRmHC-CO-X [Rm = H, alkyl; Rn = 4-((thiophen-2-yl)carbonyl)phenyl, 3-(benzoyl)phenyl, etc.; X = Y-alkyl-aryl, etc.; Y = O, S; I] are prepared For instance, naproxen is coupled to 2,2'-thiodiethanol (CH2Cl2, DMAP, EDCI) and treated with Ac2O/HNO3 at 0° to give II. I are nitrosated nonsteroidal antiinflammatory drugs (NSAIDs) used alone or are combined with one compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase. The invention provides methods for treating inflammation, pain, fever, gastrointestinal disorders, etc.

L24 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:20441 HCAPLUS

DOCUMENT NUMBER: 140:77147

TITLE: Preparation of optionally nitrosated and/or

nitrosylated oxime and/or hydrazone cyclooxygenase-2 selective inhibitors, compositions and methods of use

INVENTOR(S): Garvey, David S.; Ranatunge, Ramani R.; Richardson,

Stewart K.

PATENT ASSIGNEE(S): Nitromed, Inc., USA

SOURCE: PCT Int. Appl., 166 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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WO	2004	0024	20		A2	- ;	2004	0108	1	WO 20	003-1	JS20	421		2	0030	530
WO	2004	0024	20		A3	:	2004	0701									
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		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PΉ,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
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OTHER SO	OURCE	(S):			MARI	PAT	140:	7714	7								

AΒ The invention describes novel cyclooxygenase 2 (COX-2) selective inhibitors having at least one oxime group or hydrazone group optionally nitrosated and/or nitrosylated (one class shown as I; variables defined below; e.g. II; 15 other classes of compds. are also described in the 1st claim) and novel compns. and kits comprising at least one I and optionally, at least one compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase, and/or at least one therapeutic agent. The invention also provides methods for treating inflammation, pain and fever; for treating and/or improving the gastrointestinal properties of COX-2 selective inhibitors; for facilitating wound healing; for treating and/orpreventing renal and/or respiratory toxicity; for treating and/or preventing other disorders resulting from elevated levels of cyclooxygenase-2; and for improving the cardiovascular profile of COX-2 selective inhibitors. Six examples of I were tested for inhibition of COX-1 and COX-2; e.g. 1-[1-cyclohexyl-3-[1-(hydroxyimino)-4-(nitrooxy)butyl]pyrazol-4-yl]-4-(methylsulfonyl)benzene inhibited COX-1 10 % at 100 μM and COX-2 100 % at 10 μM . Although the methods of preparation are not claimed, 6 example prepns. are included. For example, II was prepared in 7 steps (79, 68, 84, 79, 51, 84 and 48 % yields, resp.) starting from di-Me oxalate, NaOMe and 4'-(methylthio)acetophenone in toluene and involving intermediates Me (2Z)-2-hydroxy-4-(4methylthiophenyl)-4-oxobut-2-enoate, Me 5-(4-methylthiophenyl)-1phenylpyrazole-3-carboxylate, N-methoxy-N-methyl-5-(4-methylthiophenyl)-1phenylpyrazole-3-carboxamide, 1-[5-(4-methylthiophenyl)-1-phenylpyrazol-3yl]-4-(1,1,2,2-tetramethyl-1-silapropoxy)butan-1-one, 4-hydroxy-1-[5-[4-(methylsulfonyl)phenyl]-1-phenylpyrazol-3-yl]butan-1-one, and

ΙI

-1-[5-[4-(methylsulfonyl)phenyl]-1-phenylpyrazol-3-yl]-4-(nitrooxy)butan-1one. For I: when side b is a double bond, and sides a and c are single bonds, -X1-Y1-Z1- is: -CR4(R5)CR5(R5')CR4(R5)-, -C(0)CR4(R4')CR5(R5')-, -CR4(R4')CR5(R5')C(O)-, -[CR5(R5')]kOC(O)-, etc.; when sides a and c are double bonds and side b is a single bond, -X1-Y1-Z1- is: :CR4OCR5:, :CR4NR3CR5:, :NSCR4:, :CR4SN:, etc. R1 is S(0)2Me, S(0)2NR8(D1), S(0) 2N(D1) C(0) CF3, S(0) (NH) NH(D1), S(0) (NH) N(D1) C(0) CF3, P(0) MeNH(D1), P(0)Me2, C(S)NH(D1), S(0)(NH)Me, P(0)MeOD1, or P(0)MeNH(D1); R1' is H, halo, Me, or CH2OH. R2 is lower alkyl, cycloalkyl, mono, di- or trisubstituted Ph or naphthyl, mono, di- or trisubstituted heteroaryl (wherein the heteroaryl is a monocyclic aromatic ring of 5 atoms, said ring having one heteroatom which is S, O, or N, and, optionally, 1-3 addnl. N atoms; or the heteroaryl is a monocyclic ring of 6 atoms, said ring having one heteroatom which is N, and, optionally, 1-4 addnl. N atoms), benzoheteroaryl, NR10R11, SR11, OR11, R11, alkenyl, alkynyl, unsubstituted, mono, di, tri- or tetrasubstituted cycloalkenyl, mono, di, tri- or tetrasubstituted heterocycloalkyl group of 5-7 members, or a benzoheterocycle, wherein said heterocycloalkyl or benzoheterocycle contains 1 or 2 heteroatoms selected from O, S, or N and, optionally, contains a carbonyl group or a sulfonyl group, styryl, mono or disubstituted styryl, phenylacetylene, mono- or disubstituted phenylacetylene, fluoroalkenyl, mono- or disubstituted bicyclic heteroaryl of 8-10 members, containing 2-5 heteroatoms (wherein at least one heteroatom resides on each ring of said bicyclic heteroaryl, said heteroatoms are each independently O, S and N), K, aryl, arylalkyl, cycloalkylalkyl, -C(O)R11, hydrogen, arylalkenyl, arylalkoxy, alkoxy, aryloxy, cycloalkoxy, arylthio, alkylthio, arylalkylthio, or cycloalkylthio. R3 is hydrogen, haloalkyl (preferably CF3), CN, lower alkyl, [C(Re)(Rf)]p-U-V, K, (un) substituted lower alkyl-Q, lower alkyl-O-lower alkyl-Q, etc., Q, alkylcarbonyl, arylcarbonyl, alkylarylcarbonyl, arylalkylcarbonyl, carboxylic ester, carboxamido, cycloalkyl, mono, di- or trisubstituted Ph or naphthyl, alkenyl, alkynyl, arylalkyl, lower alkyl-OD1, alkoxyalkyl, aminoalkyl, lower alkyl-CO2R10, lower alkyl-C(0)NR10(R10'), heterocyclic alkyl, or heterocyclic ring-C(0)-; with the proviso that one oxime or hydrazone group must be present; addnl. details are given in the claims. 56-85-9, Glutamine, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (codrug; preparation of optionally nitrosated and/or nitrosylated oxime and/or hydrazone cyclooxygenase-2 selective inhibitors, compns. and methods of use)

L24 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:20431 HCAPLUS

DOCUMENT NUMBER: 140:77146

TITLE: Preparation of trisubstituted pyrazole

cyclooxygenase-2 selective inhibitors

INVENTOR(S): Bandarage, Upul K.; Earl, Richard A.; Ezawa, Maiko;

Fang, Xinqin; Garvey, David S.; Khanapure, Subhash P.;

Ranatunge, Ramani R.; Richardson, Stewart K.; Schroeder, Joseph D.; Stevenson, Cheri A.; Wey,

Shiow-jyi

PATENT ASSIGNEE(S): Nitromed, Inc., USA

SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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FILE COVERS 1907 - 13 Apr 2005 VOL 142 ISS 16 FILE LAST UPDATED: 12 Apr 2005 (20050412/ED)

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FILE 'REGISTRY' ENTERED AT 13:54:05 ON 13 APR 2005 E GLUTAMINE

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FILE 'HCAPLUS' ENTERED AT 13:54:24 ON 13 APR 2005

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L3 669136 S E3

E THERAPY

L4 257216 S E3

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E SKIN/CT

L6 165796 S E3+ALL

E BREAST

E BREAST/CT

L7 59269 S E3+ALL

E TISSUE/CT

L8 55161 S E3+ALL

L9 5 S L5 AND L6 AND L7 AND L8

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			KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
Ü	JS 2	20040	05398	35		A1	•	2004	0318	Ī	US 20	003-	6030	98		2	0030	625
PRIORI	TY	APPI	ĹΝ. :	INFO	. :					1	US 20	002-3	3917	59P		P 2	0020	627
										1	US 20	003-4	45430	07P		P 2	0030	314
OTHER	SOL	JRCE	(S):			MAR	PAT	140:	77146	5								

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [R1 = SO2CH3, SO2NH2; R1' = H, halo, Me, CH2OH; R2 = alkyl, cycloalkyl, aryl, heterocyclic ring; R3 = (un)substituted alkyl, acyl, etc.] are prepared For instance, Me (Z)-2-hydroxy-4-(4methylthiophenyl)-4-oxobut-2-enoate (preparation given) is reacted with cyclooctylhydrazine trifluoroacetate (preparation given) (MeOH, 70°) to give Me 1-cyclooctyl-5-(4-methylthiophenyl)pyrazole-3-carboxylate. This is reduced (THF, LAH), oxidized to the sulfone (MeOH/H2O, oxone) and reacted with NHO3/Ac20 (CHCl3) to give II. Compds. of the invention exhibit cyclooxygenase 2 (COX-2) selectivity; II exhibits 75% inhibition of COX-2 at 10 μM and 35% inhibition of COX 1 at 100 μM . The invention also provides novel kits comprising at least one COX-2 selective inhibitor, optionally nitrosated and/or nitrosylated and optionally at least one nitric oxide donor and/or optionally at least one therapeutic agent. The novel cyclooxygenase 2 selective inhibitors of the invention can be optionally nitrosated and/or nitrosylated. Therapies are also disclosed that provide methods for: treating inflammation, pain and fever, for improving the gastrointestinal properties of COX-2 selective inhibitors, for facilitating wound healing, etc.

IT 56-85-9, Glutamine, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination pharmaceutical; preparation of trisubstituted pyrazole cyclooxygenase-2 selective inhibitors)

L24 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:20345 HCAPLUS

DOCUMENT NUMBER: 140:77144

TITLE: Preparation of optionally nitrosated and/or

nitrosylated oxime and/or hydrazone cyclooxygenase-2 selective inhibitors, compositions and methods of use

INVENTOR(S): Ranatunge, Ramani R.; Garvey, David S.; Richardson,

Stewart K.

PATENT ASSIGNEE(S):

Nitromed, Inc., USA

SOURCE:

GI

U.S. Pat. Appl. Publ., 74 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

_ _ _ _

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

US 2004006133

A1 20040108

US 2003-608333

20030630

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

MARPAT 140:77144

US 2002-392044P P 20020628

GI

AB The invention describes novel cyclooxygenase 2 (COX-2) selective inhibitors having at least one oxime group or hydrazone group optionally nitrosated and/or nitrosylated (one class shown as I; variables defined below; e.g. II; 15 other classes of compds. are also described in the 1st claim) and novel compns. and kits comprising at least one I and optionally, at least one compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase, and/or at least one therapeutic agent. The invention also provides methods for treating inflammation, pain and fever; for treating and/or improving the gastrointestinal properties of COX-2 selective inhibitors; for facilitating wound healing; for treating and/or preventing renal and/or respiratory toxicity; for treating and/or preventing other disorders resulting from elevated levels of cyclooxygenase-2; and for improving the cardiovascular profile of COX-2 selective inhibitors. Six examples of I were tested for inhibition of COX-1 and COX-2; e.g. 1-[1-cyclohexyl-3-[1-(hydroxyimino)-4-(nitrooxy)butyl]pyrazol-4-yl]-4-(methylsulfonyl)benzene inhibited COX-1 10

ΙI

% at 100 μM and COX-2 100 % at 10 μM . Although the methods of preparation are not claimed, 6 example prepns. are included. For example, II was prepared in 7 steps (79, 68, 84, 79, 51, 84 and 48 % yields, resp.) starting from di-Me oxalate, NaOMe and 4'-(methylthio)acetophenone in toluene and involving intermediates Me (2Z)-2-hydroxy-4-(4methylthiophenyl)-4-oxobut-2-enoate, Me 5-(4-methylthiophenyl)-1phenylpyrazole-3-carboxylate, N-methoxy-N-methyl-5-(4-methylthiophenyl)-1phenylpyrazole-3-carboxamide, 1-[5-(4-methylthiophenyl)-1-phenylpyrazol-3yl]-4-(1,1,2,2-tetramethyl-1-silapropoxy)butan-1-one, 4-hydroxy-1-[5-[4-(methylsulfonyl)phenyl]-1-phenylpyrazol-3-yl]butan-1-one, and 1-[5-[4-(methylsulfonyl)phenyl]-1-phenylpyrazol-3-yl]-4-(nitrooxy)butan-1one. For I: when side b is a double bond, and sides a and c are single bonds, -X1-Y1-Z1- is: -CR4(R5)CR5(R5')CR4(R5)-, -C(0)CR4(R4')CR5(R5')-, -CR4(R4')CR5(R5')C(O)-, -[CR5(R5')]kOC(O)-, etc.; when sides a and c are double bonds and side b is a single bond, -X1-Y1-Z1- is: :CR40CR5:, :CR4NR3CR5:, :NSCR4:, :CR4SN:, etc. R1 is S(0)2Me, S(0)2NR8(D1), S(0) 2N(D1)C(0)CF3, S(0)(NH)NH(D1), S(0)(NH)N(D1)C(0)CF3, P(0)MeNH(D1), P(O)Me2, C(S)NH(D1), S(O)(NH)Me, P(O)MeOD1, or P(O)MeNH(D1); R1' is H, halo, Me, or CH2OH. R2 is lower alkyl, cycloalkyl, mono, di- or trisubstituted Ph or naphthyl, mono, di- or trisubstituted heteroaryl (wherein the heteroaryl is a monocyclic aromatic ring of 5 atoms, said ring having one heteroatom which is S, O, or N, and, optionally, 1-3 addnl. N atoms; or the heteroaryl is a monocyclic ring of 6 atoms, said ring having one heteroatom which is N, and, optionally, 1-4 addnl. N atoms), benzoheteroaryl, NR10R11, SR11, OR11, R11, alkenyl, alkynyl, unsubstituted, mono, di, tri- or tetrasubstituted cycloalkenyl, mono, di, tri- or tetrasubstituted heterocycloalkyl group of 5-7 members, or a benzoheterocycle, wherein said heterocycloalkyl or benzoheterocycle contains 1 or 2 heteroatoms selected from O, S, or N and, optionally, contains a carbonyl group or a sulfonyl group, styryl, mono or disubstituted styryl, phenylacetylene, mono- or disubstituted phenylacetylene, fluoroalkenyl, mono- or disubstituted bicyclic heteroaryl of 8-10 members, containing 2-5 heteroatoms (wherein at least one heteroatom resides on each ring of said bicyclic heteroaryl, said heteroatoms are each independently O, S and N), K, aryl, arylalkyl, cycloalkylalkyl, -C(0)R11, hydrogen, arylalkenyl, arylalkoxy, alkoxy, aryloxy, cycloalkoxy, arylthio, alkylthio, arylalkylthio, or cycloalkylthio. R3 is hydrogen, haloalkyl (preferably CF3), CN, lower alkyl, [C(Re)(Rf)]p-U-V, K, (un) substituted lower alkyl-Q, lower alkyl-O-lower alkyl-Q, etc., Q, alkylcarbonyl, arylcarbonyl, alkylarylcarbonyl, arylalkylcarbonyl, carboxylic ester, carboxamido, cycloalkyl, mono, di- or trisubstituted Ph or naphthyl, alkenyl, alkynyl, arylalkyl, lower alkyl-OD1, alkoxyalkyl, aminoalkyl, lower alkyl-CO2R10, lower alkyl-C(0)NR10(R10'), heterocyclic alkyl, or heterocyclic ring-C(O)-; with the proviso that one oxime or hydrazone group must be present; addnl. details are given in the claims. 56-85-9, Glutamine, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(codrug; preparation of optionally nitrosated and/or nitrosylated oxime and/or hydrazone cyclooxygenase-2 selective inhibitors, compns. and methods of use)

L24 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:991031 HCAPLUS

DOCUMENT NUMBER: 140:40889

TITLE: Modified

Modified anti-tumor necrosis factor immunoglobulins containing extra constant region Ig domain inserted into its constant region and their therapeutic uses

INVENTOR(S): Scallon, Bernard J.; Cai, Ann; Naso, Michael

PATENT ASSIGNEE(S): USA

IT

SOURCE: U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	ENT	NO.			KIN		DATE			APPL					D	ATE	
																-		
								2003										
	WO							2003										
		W :	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN;
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,
			TZ,	UA,	ŪĠ,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
			KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR
PRIO	RITY	APP	LN.	INFO	. :					1	US 2	002-3	3888	96P		P 20	0020	614
AB	The	pre	sent	inv	enti	on re	elat	es to	om c	difi	ed ar	nti-	tumo:	r ne	cros	is fa	acto:	r Igs.
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TΤ 9023-70-5, Glutamine synthetase

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(as selectable marker for expression of Ig; modified anti-tumor necrosis factor Igs containing extra constant region Ig domain inserted into its constant region and their therapeutic uses)

L24 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:358204 HCAPLUS

DOCUMENT NUMBER: 139:111245

TITLE: Phase II study of antineoplaston A10 and AS2-1 in

patients with recurrent diffuse intrinsic brain stem

glioma. A preliminary report

AUTHOR (S): Burzynski, Stanislaw R.; Lewy, Robert I.; Weaver,

Robert A.; Axler, Maxwell L.; Janicki, Tomasz J.;

Jurida, Gabor F.; Paszkowiak, Jaroslaw K.; Szymkowski, Barbara G.; Khan, Mohammad I.; Bestak, Mark

Department of Internal Medicine, Burzynski Clinic, CORPORATE SOURCE:

Houston, TX, USA

Drugs in R&D (2003), 4(2), 91-101 SOURCE:

CODEN: DRDDFD; ISSN: 1174-5886

PUBLISHER: Adis International Ltd.

Journal DOCUMENT TYPE: English LANGUAGE:

Twelve title patients received escalating doses of antineoplaston A10 and AS2-1 by i.v. bolus injections. The median duration of treatment was 6 mo and the average dosage of antineoplaston A10 was 11.3 q/kg/day and of antineoplaston AS2-10.4 q/kg/day. Responses were assessed by Gd-enhanced magnetic resonance imaging of the head. Of ten evaluable patients, complete response occurred in two cases, partial response in three, stable disease in three and progressive disease in two. Survival after 2 yr was

33.3%. Currently, of all 12 patients, two (17%) were alive and tumor free for >5 yr since initial diagnosis; one was alive for >5 yr, and another for >4 yr from the start of treatment. Only mild and moderate toxicities were observed, which included three cases of skin allergy, two cases of anemia, fever and hypernatremia, and single cases of agranulocytosis, hypoglycemia, numbness, tiredness, myalgia and vomiting. The results compared favorably with the responses of patients treated with radiation therapy and chemotherapy.

IT 104624-98-8, Antineoplaston AS2-1 128932-52-5

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antineoplaston A10 and AS2-1 in patients with recurrent diffuse intrinsic brain stem glioma)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:117979 HCAPLUS

DOCUMENT NUMBER: 138:165524

TITLE: New members of the transient receptor potential

calcium channel family LTPRC3 including splice

variants and cDNAs encoding them and their diagnostic

and therapeutic uses

INVENTOR(S): Lee, Ning; Chen, Jian; Feder, John N.; Wu, Shujian;

Lee, Liana; Blanar, Michael A.; Bol, David; Levesque,

Paul C.; Sun, Lucy

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 508 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATEN	r NO.		KIN	D	DATE		i	APPL:	I CAT	ION 1	. O <i>l</i>		D	ATE	
	0301206						Ţ	vo .2	002-1	JS24	145		20	00208	301
	0301206				2004										
, W	: AE,	AG, A	L, AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	CO,	CR, C	U, CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			U, ID,												
			U, LV,												
			O, RU,												
	UA,	UG, U	S, UZ,	VN,	YU,	ZA,	ZM,	ZW	•	•	•	•	•	•	•
R	√: GH,	GM, K	E, LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
			D, RU,												
	FI,	FR, G	B, GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,
			M, GA,												
EP 14	53814		A2		2004	1006]	EP 20	002-	7612:	17		20	00208	301
R	: AT,	BE, C	H, DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
	ΙE,	SI, L	T, LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK		
PRIORITY A	PPLN. I	NFO.:				-	į	JS 20	001-3	30954	14P	j	2 (00108	302
							7	NO 20	002-t	JS244	145	Ţ	V 20	00208	301
AB The p	resent	inven	tion p	rovi	des	nove:	l poi	lynu	cleot	ides	s end	codin	ng Li	TRPC:	3

AB The present invention provides novel polynucleotides encoding LTRPC3 polypeptides, fragments and homologues thereof. The present invention also provides polynucleotides encoding variants and splice variants of LTRPC3 polypeptides, LTRPC3b, LTRPC3c, LTRPC3d, LTRPC3e, and LTRPC3f, resp. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention

further relates to diagnostic and therapeutic methods for applying these novel LTRPC3, LTRPC3b, LTRPC3c, LTRPC3d, LTRPC3e, and LTRPC3f polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

IT 497146-38-0 497146-76-6

RL: PRP (Properties)

(unclaimed sequence; new members of the transient receptor potential calcium channel family LTPRC3 including splice variants and cDNAs encoding them and their diagnostic and therapeutic uses)

L24 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:933076 HCAPLUS

DOCUMENT NUMBER: 136:58537

TITLE: Nontoxic vernix compositions and method of producing

INVENTOR(S): Hoath, Steven B.; Pickens, William L.; Visscher,

Martha O.

PATENT ASSIGNEE(S): Children's Hospital Medical Center, Philadelphia, USA

SOURCE: U.S., 12 pp., Cont.-in-part of U.S. Ser. No. 257,008.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

	PATENT NO. KIND						DATE			APPI	JICAT	ION :	NO.		D	ATE	
	6333										 L999-						
	5989						1999	1123		US 1	1998-	3320	9		1	9980	302
CA	2390	767			AA		2001	0531		CA 2	-000	2390	767		2	0001	113
	2001							0531		WO 2	2000-	US31	059		2	0001	113
	2001																
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
		SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	UΖ,	VN,	YU,
		ZA,	ZW														
	RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AM,	ΑZ,	BY,	KG,
		ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,
		ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
							TD,										
EP	1231																
	R:	AT,	ΒE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
							RO,						•				
JP	2003	5148	64		T2		2003										
US	2002	0395	90		A1		2002			US 2	2001-	8508	44		2	0010	508
US	6562	358			B2		2003	0513									
ÙS	2003	1133	55		A1		2003	0619		US 2	2002-	2411	84		2	0020	911
	6846				B2		2005	0125									
PRIORITY	Y APP	LN.	INFO	.:							.998-						
											999-						
										US 1	.999-	4471	80		A 1	9991	122
										US 2	000-	2025	67P		P 2	0000	510
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7, 12, 7, 4											001-						

AB A composition containing vernix to provide **therapeutic** treatment in a human, and a method for using the composition, are disclosed. The composition may

contain a natural or synthetic medicament, or may be manipulated to regulate transport properties. The medicament may be, for example, a protectant against UV radiation or an antioxidant. Various compns. and uses of vernix, both natural and synthetic, are disclosed. The compns. may be used in embodiments such as skin protection, wound healing, and restoration of epidermal barrier function. Photographs of a Western blot anal. demonstrating surfactant protein-A and protein-D in vernix. is depicted (no data).

IT 56-85-9, Glutamine, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nontoxic vernix compns. and method of producing)

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:851786 HCAPLUS

DOCUMENT NUMBER:

136:4707

TITLE:

Immunostimulatory nucleic acids for inducing a Th2

WO 2001-US2170

W 20010122

immune response

INVENTOR(S):

McCluskie, Michael J.; Davis, Heather L.

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 50 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P	TA	ENT 1	NO.			KINI	כ	DATE		1	APPL	I CAT	ION I	NO.		DA	ATE	
- บ	s IS	2001	0444	16		A1	-	2001	1122								0010	122
С	'A	23968	871			AA		2001	1220	(CA 2	001-2	2396	871	•	20	0010	122
W	О	2001	09593	35		A1		2001	1220	Ţ	WO 2	001-1	JS21	70		20	0010	122
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			-	-	-			DM,										
			HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
				-		-	-	MK,										
			SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	UZ,	VN,	YU,
			ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM					
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
								GB,										
			вJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
E	P	13112	288			A1		2003	0521	1	EP 2	001-	9032	36		20	0010	122
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	FI,	CY,	TR												
PRIORI	TY	APP	LN.	INFO	. :					1	US 2	000-	1774	61P]	P 20	0000	120

- AB The invention relates to methods and products for inducing an immune response using immunostimulatory nucleic acids. In particular the immunostimulatory nucleic acids preferentially induce a Th2 immune response. The invention is useful for treating and preventing disorders associated with a Th1 immune response or for creating a Th2 environment for treating disorders that are sensitive to Th2 immune responses. These disorders include Th1-mediated disease, autoimmune disease, infection, and cancer.
- IT 53678-77-6D, Muramyl dipeptide, derivs. 66112-59-2, SAF

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vaccine comprising a Th2 immunostimulatory nucleic acid and/or an antigen and/or a therapeutic agent (cytokine, adjuvant, or drug) for treatment or prevention of various diseases)

L24 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:360798 HCAPLUS

DOCUMENT NUMBER: 135:251535

TITLE: Comparative evaluation of blood plasma and tumor

tissue amino acid pool in radiation or neoadjuvant preoperative therapies of breast cancer with the antitumor drug Ukrain

AUTHOR(S): Nefyodov, L. I.; Uglyanitsa, K. N.; Smirnov, V. Y.;

Karavay, A. V.; Brzosko, W.

CORPORATE SOURCE: Laboratory of Analytical Biochemistry, Institute of

Biochemistry, National Academy of Sciences of Belarus,

Grodno, 230017, Belarus

SOURCE: Drugs under Experimental and Clinical Research (2000),

26(5/6), 231-237

CODEN: DECRDP; ISSN: 0378-6501

PUBLISHER: Bioscience Ediprint Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

This study comparatively evaluated free amino acid pool formation in AΒ patients with T1-3NO-2MO breast cancer treated with the drug Ukrain (25 patients, i.v. 100 mg/course) in combination with preoperative radiation or neoadjuvant therapies (25 subjects, total dose 20 Gy). All the patients underwent radical mastectomy. Preoperative radiation did not essentially change the range of the blood plasma parameters studied. However, the authors observed decreased concns. of blood plasma ornithine and citrulline and a reduced content of aminobutyric acid, as compared with levels on admission, which may indicate an acceleration of detoxication processes in the liver. In comparison with healthy mammary gland tissue, the tumor tissue of the patients subjected to radiation therapy showed 1.5- to twofold increased concns. of cysteate, taurine, aspartate, glutamate, proline, glycine, alanine, valine, tyrosine and histidine, which substantiates the idea of tumor tissue being a trap for numerous energy and plastic substrates and indicates active transport of the above compds. into the tumor. The application of Ukrain had virtually no influence on concns. of the majority of blood plasma amino acids and derivs.: the total concentration of the compds. studied as well as the essential

and nonessential amino acid pools remained unchanged. As compared with healthy breast tissue, the considerably increased levels of thiol-containing amino acids, such as methionine, cystine, cysteate and taurine, in the tumor tissue of patients receiving neoadjuvant therapy with Ukrain, indicates high activity of trans-sulfuration processes in this tissue. Simultaneously, in contrast to radiation therapy, Ukrain induced a marked dose-dependent increase in the concentration of proline in breast tumor tissue. The above changes were consistent with the results of the morphol. study which confirmed the emergence of numerous foci of necrosis in the tumor and indicated activation of Ukrain-induced proteolytic and degradation processes in the tumor. The results obtained have led the authors to conclude that a mechanism of Ukrain's cancerostatic effect is to control the transport and reactions of intermediate amino acid metabolism as well as to activate proline biosynthesis in the tumor, causing enhanced development of connective tissue. It is suggested that an important practical conclusion from the present study is the lack of

damaging effect of preoperative radiation therapy in the above regimen and the favorable (normalizing) action of Ukrain, at a course dose of 100 mg, on the amino acid pool formation in the organism of patients with breast cancer.

IT 56-85-9, Glutamine, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(blood plasma and tumor tissue amino acid pool in radiation or neoadjuvant preoperative therapies of breast cancer with Ukrain in humans)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:735501 HCAPLUS

DOCUMENT NUMBER: 123:102786

TITLE: Modified platelet factor 4 (PF4) compositions and

therapeutic and diagnostic use

INVENTOR(S): Maione, Theodore E.; Lai, Chee Kong

PATENT ASSIGNEE(S): Repligen Corp., USA SOURCE: PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9512414	A1	19950511	WO 1994-US12737	19941104
W: AU, CA, JP				
RW: AT, BE, CH,	DE, DK	, ES, FR, GE	B, GR, IE, IT, LU,	MC, NL, PT, SE
AU 9511717	A1	19950523	AU 1995-11717	19941104
PRIORITY APPLN. INFO.:			US 1993-149104	A 19931105
			WO 1994-US12737	W 19941104

- The invention pertains to the use of modified PF4 to inhibit angiogenesis. The modified PF4 has utility for treating angiogenic diseases and for the inhibition of endothelial cell proliferation. Also, the invention concerns modifications of PF4 which extend the half-life and facilitate the targeting of the biol. activity of PF4 to specific locations. Furthermore, PF4 itself can be used to target the activities of other mols. to locations of angiogenesis and endothelial cell proliferation. Conjugation of recombinant PF4 (rPF4) with albumin, glycine Me ester, fluorescein derivs., PEG, etc. is described. Also described are construction and biol. activity of various mutant recombinant rPF4 mols. A PEG-rPF4 conjugate inhibited melanoma lung metastases. The PEG-rPF4 conjugate showed an advantageous clearance rate from the bloodstream, compared to rPF4.
- IT 131571-32-9 136512-13-5 147035-44-7 147035-45-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(platelet factor 4 conjugates and therapeutic and diagnostic use)

IT 136512-13-5DP, conjugates with fluorescein isothiocyanate , RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(platelet factor 4 conjugates and therapeutic and diagnostic use)

L24 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:16343 HCAPLUS

DOCUMENT NUMBER: 108:16343

TITLE: Antibody complexes of hapten-modified diagnostic or

therapeutic agents

INVENTOR(S): Frincke, James M.; Meyer, Damon L.; David, Gary S.;

Bartholomew, Richard M.

PATENT ASSIGNEE(S): Hybritech, Inc., USA SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				-	
EP 217577	A2	19870408	EP 1986-307031		19860912
EP 217577	A3	19870909			
EP 217577	B1	19920610			
R: AT, BE, CH,	DE, FR	, GB, IT, I	LI, LU, NL, SE		
CA 1282069	A1	19910326	CA 1986-517663		19860908
AU 8662646	A1	19870319	AU 1986-62646		19860912
AU 597903	B2	19900614			
JP 62070377	A2	19870331	JP 1986-216963		19860912
AT 77056	E	19920615	AT 1986-307031		19860912
IL 80020	A1	19930114	IL 1986-80020		19860912
IL 97411	A1	19930114	IL 1986-97411		19860912
IL 97412	A1	19930404	IL 1986-97412		19860912
AU 9049750	A1	19901129	AU 1990-49750		19900213
AU 629903	B2	19921015			
PRIORITY APPLN. INFO.:			US 1985-775461	Α	19850912
			EP 1986-307031	Α	19860912
			IL 1986-80020	A3	19860912

AB Hapten-modified diagnostic or therapeutic agents complexed with suitable anti-hapten antibodies are prepared which extend the serum half-life and permit an increased concentration of such diagnostic or therapeutic agents at in vivo target sites. 111In-bleomycin-Co-S-butane-linked EDTA conjugate (preparation given) 1-2 μCi and anti-hapten monoclonal antibody 0-100 μg were injected into mice. Tumor and organ uptake levels were measured 24 h after administration. The antibody enhanced tumor uptake, extended the serum lifetime, and altered the biodistribution of the drug. With antibody-mediated delivery, a higher percent dose of the hapten-modified pharmaceutical is concentrated at the tumor site and radiation reaching the site is enhanced. At low antibody concentration, the distribution is similar to the drug in the absence of

antibody, whereas at high antibody concentration the drug distribution is similar

to the antibody distribution.

IT 31362-50-2, Bombesin

RL: BIOL (Biological study)

(chimeric antibodies to hapten-modified diagnostic or therapeutic agents and, serum half-life and target site concentration of agent increase with)

=> => file medline,biosis,embase
FILE 'MEDLINE' ENTERED AT 14:20:14 ON 13 APR 2005

FILE 'BIOSIS' ENTERED AT 14:20:14 ON 13 APR 2005 Copyright (c) 2005 The Thomson Corporation FILE 'EMBASE' ENTERED AT 14:20:14 ON 13 APR 2005 COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

(FILE 'HOME' ENTERED AT 13:53:53 ON 13 APR 2005) SET COST OFF

FILE 'REGISTRY' ENTERED AT 13:54:05 ON 13 APR 2005 E GLUTAMINE

L1 48191 S E3

=> d his

FILE 'HCAPLUS' ENTERED AT 13:54:24 ON 13 APR 2005
L2 71817 S L1
E RADATION
E RADIATION

L3 669136 S E3

E THERAPY L4 257216 S E3

L5 56 S L2 AND L3 AND L4 E SKIN/CT

L6 165796 S E3+ALL E BREAST E BREAST/CT

L7 59269 S E3+ALL E TISSUE/CT

L8 55161 S E3+ALL

L9 5 S L5 AND L6 AND L7 AND L8 E KLINBERG S/AU

E KLIMBERG S/AU

L10 27 S E4-E6

E PETIT R/AU

L11 38 S E3 E PETIT G/AU

L12 58 S E3,E13 E SHINAL E,AU E SHINAL E/AU

L13 10 S E5

L16

E SHINAL C/AU

L14 11 S E4-E5 L15 133 S L10 OF

133 S L10 OR L11 OR L12 OR L13 OR L14 0 S L10 AND L11 AND L12 AND L13 AND L14

L17 1 S L5 AND L15

L18 67 S L2 AND (RADIATION (L) THERAP?) L19 32 S L18 AND (SKIN OR BREAST OR TISSUE)

L21 3 S L18 AND L19 AND MUCOSAL

L22 0 S L18 AND (NON (L) MUCOSAL (L) TISSUE)

L23 0 S L19 AND (NON (L) MUCOSAL (L) TISSUE) L24 15 S L18 AND (SKIN OR BREAST (L) TISSUE)

FILE 'HCAPLUS' ENTERED AT 14:14:12 ON 13 APR 2005

FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 14:15:30 ON 13 APR 2005 E GLUTAMINE

L25 77118 S E3

L26 963 S L25 AND (SKIN OR BREAST (L) TISSUE) 0 S L*** AND RADIATION L*** 0 S L*** AND RADIATION L*** 0 S L*** AND RADIATION T,*** 0 S L*** AND RADIATION L28 28 S L26 AND RADIATION L29 6 S L26 AND (RADIATION (L) THERAP?) L30

FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 14:20:14 ON 13 APR 2005

=> d ibib abs 130 tot

L30 ANSWER 1 OF 6 MEDLINE on STN 2003199457 ACCESSION NUMBER: MEDLINE DOCUMENT NUMBER: PubMed ID: 12718563

TITLE: Phase II study of antineoplaston AlO and AS2-1 in patients

with recurrent diffuse intrinsic brain stem glioma: a

preliminary report.

Burzynski Stanislaw R; Lewy Robert I; Weaver Robert A; AUTHOR:

Axler Maxwell L; Janicki Tomasz J; Jurida Gabor F;

Paszkowiak Jaroslaw K; Szymkowski Barbara G; Khan Mohammad

I; Bestak Mark

CORPORATE SOURCE: Department of Internal Medicine, Burzynski Clinic, Houston,

Texas, USA.. info@burzynskiclinic.com

Drugs in R&D, (2003) 4 (2) 91-101. Journal code: 100883647. ISSN: 1174-5886. SOURCE:

PUB. COUNTRY: New Zealand

(CLINICAL TRIAL) DOCUMENT TYPE:

(CLINICAL TRIAL, PHASE II)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200311

ENTRY DATE: Entered STN: 20030430

> Last Updated on STN: 20031217 Entered Medline: 20031118

OBJECTIVE: A phase II study of antineoplaston A10 and AS2-1 was conducted AΒ to evaluate the antineoplastic activity in patients with recurrent diffuse intrinsic brain stem glioma. PATIENTS AND METHODS: This report describes the results of treatment of the first 12 patients admitted to the study. Patients received escalating doses of antineoplaston A10 and AS2-1 by intravenous bolus injections. The median duration of treatment was 6 months and the average dosage of antineoplaston AlO was 11.3 g/kg/day and of antineoplaston AS2-1 0.4 g/kg/day. Responses were assessed by gadolinium-enhanced magnetic resonance imaging of the head. RESULTS: Of ten evaluable patients, complete response was determined in two cases (20%), partial response in three (30%), stable disease in three (30%) and progressive disease in two (20%). Survival at 2 years was 33.3%. Currently, of all 12 patients, two (17%) were alive and tumour free for over 5 years since initial diagnosis; one was alive for more than 5 years, and another for more than 4 years from the start of treatment. Only mild and moderate toxicities were observed, which included three cases of skin allergy, two cases of anaemia, fever and hypernatraemia, and single cases of agranulocytosis, hypoglycaemia, numbness, tiredness, myalgia and vomiting. CONCLUSION: The results of this study compared favourably with the responses of patients treated with radiation therapy and chemotherapy. The study continues with accrual of additional patients.

L30 ANSWER 2 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2004128591 EMBASE

TITLE: Post-irradiation approaches to treatment of radiation

injuries in the context of radiological terrorism and

radiation accidents: A review.

AUTHOR: Moulder J.E.

CORPORATE SOURCE: J.E. Moulder, Radiation Oncology, Medical College of

Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226,

United States. jmoulder@mcw.edu

SOURCE: International Journal of Radiation Biology, (2004) Vol. 80,

No. 1, pp. 3-10.

Refs: 80

ISSN: 0955-3002 CODEN: IJRBA3

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; (Short Survey)

FILE SEGMENT: 014 Radiology

. 017 Public Health, Social Medicine and Epidemiology

025 Hematology

037 Drug Literature Index038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20040412

Last Updated on STN: 20040412

Purpose: Events of the recent past have focused attention on the AΒ possibility of radiological (nuclear) terrorism and on the implications of such terrorist threats for radiation accident preparedness. This review discusses recent advances in the knowledge about how radiation injuries from such events might be treated pharmacologically, and the practical barriers to clinical utilization of these approaches. Conclusions: A wide range of pharmacological approaches are being developed in the laboratory that could greatly expand the ability to treat acute and chronic radiation injuries. However, there are currently a variety of practical and legal barriers that would prevent the actual clinical use of most of the approaches. There are also the potential weaknesses in most of the current programmes for dealing with the consequences of radiation accidents or nuclear terrorism, including the absence of widespread radiation biodosimetry capabilities and the resulting inability to triage. If a major radiation accident or terrorist event occurs, the lack of biodosimetry and treatment capabilities will be compounded by widespread public fear of 'radiation'.

L30 ANSWER 3 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2003354167 EMBASE

TITLE: Phase II study of antineoplaston A10 and AS2-1 in patients

with recurrent diffuse intrinsic brain stem glioma: A

preliminary report.

AUTHOR: Burzynski S.R.; Lewy R.I.; Weaver R.A.; Axler M.L.; Janicki

T.J.; Jurida G.F.; Paszkowiak J.K.; Szymkowski B.G.; Khan

M.I.; Bestak M.

CORPORATE SOURCE: Dr. S.R. Burzynski, Burzynski Clinic, Department of

Internal Medicine, 9432 Old Katy Road, Houston, TX, United

States. info@burzynskiclinic.com

SOURCE: Drugs in R and D, (2003) Vol. 4, No. 2, pp. 91-101.

Refs: 41

ISSN: 1174-5886 CODEN: DRDDFD

COUNTRY: New Zealand

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 008 Neurology and Neurosurgery

016 Cancer

030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20030918

Last Updated on STN: 20030918

ΔR Objective: A phase II study of antineoplaston AlO and AS2-1 was conducted to evaluate the antineoplastic activity in patients with recurrent diffuse intrinsic brain stem glioma. Patients and methods: This report describes the results of treatment of the first 12 patients admitted to the study. Patients received escalating doses of antineoplaston A10 and AS2-1 by intravenous bolus injections. The median duration of treatment was 6 months and the average dosage of antineoplaston AlO was 11.3 g/kg/day and of antineoplaston AS2-1 0.4 g/kg/day. Responses were assessed by qadolinium-enhanced magnetic resonance imaging of the head. Results: Of ten evaluable patients, complete response was determined in two cases (20%), partial response in three (30%), stable disease in three (30%) and progressive disease in two (20%). Survival at 2 years was 33.3%. Currently, of all 12 patients, two (17%) were alive and tumour free for over 5 years since initial diagnosis; one was alive for more than 5 years, and another for more than 4 years from the start of treatment. Only mild and moderate toxicities were observed, which included three cases of skin allergy, two cases of anaemia, fever and hypernatraemia, and single cases of agranulocytosis, hypoglycaemia, numbness, tiredness, myalgia and vomiting. Conclusion: The results of this study compared favourably with the responses of patients treated with radiation therapy and chemotherapy. The study continues with accrual of additional patients.

L30 ANSWER 4 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2002227209 EMBASE

TITLE: Clinical applications of radioprotectors.

AUTHOR: Werner-Wasik M.

CORPORATE SOURCE: M. Werner-Wasik, Department of Radiation Oncology, Kimmel

Cancer Center, Jefferson Medical College, 11 South 11th

Street, Philadelphia, PA 19107, United States.

maria.werner-wasik@mail.tju.edu

SOURCE: Expert Review of Anticancer Therapy, (2001) Vol. 1, No. 2,

pp. 309-316. Refs: 34

ISSN: 1473-7140 CODEN: ERATBJ

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 014 Radiology 016 Cancer

030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

039 Pharmacy

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20020711

Last Updated on STN: 20020711

AB Patients with malignant or benign tumors who receive radiation

therapy - frequently in combination with chemotherapy - are likely to experience side effects, either acutely or chronically. After several decades of preclinical and clinical research efforts, a first approved radioprotective drug, amifostine, has been introduced into the clinic. Although thus far it has been demonstrated to be effective only for the prevention of dry mouth following radiotherapy, it has the potential to be applied in many other oncologic situations.

L30 ANSWER 5 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2002129978 EMBASE

TITLE: Radiation damage to the rectum and anus: Pathophysiology,

clinical features and surgical implications.

AUTHOR: Reis E.D.; Vine A.J.; Heimann T.

CORPORATE SOURCE: E.D. Reis, Department of Surgery, The Mount Sinai Medical

Centre, One Gustave L. Levy Place, New York, NY 10029-6574,

United States. emane.reis@mountsinai.org

SOURCE: Colorectal Disease, (2002) Vol. 4, No. 1, pp. 2-12.

Refs: 93

ISSN: 1462-8910 CODEN: CODIFU

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 014 Radiology

016 Cancer

037 Drug Literature Index 038 Adverse Reactions Titles

048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20020425

Last Updated on STN: 20020425

AB Radiation kills cancer cells by inducing various degrees of deoxyribonucleic acid fragmentation and disruption of intracellular membranes that lead to either immediate or delayed cell death. Although radiation can be effective in destroying cancer, its usefulness is limited by damage to normal tissues that surround the target tumour or those in the path of the radiation beam. The rectum and anus are damaged frequently during radiotherapy for abdominopelvic malignancy, including preresection therapy for rectal cancer. Such damage is often associated with lesions in the perineal skin, genitourinary tract, colon, and small intestine. Surgical intervention often is required for the most severe forms of these complications.

L30 ANSWER 6 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 80000591 EMBASE

DOCUMENT NUMBER: 1980000591

TITLE: Effects of methionine sulfoximine analogs on the synthesis

of glutamine and glutathione: Possible

chemotherapeutic implications.

AUTHOR: Meister A.; Griffith O.W.

CORPORATE SOURCE: Dept. Biochem., Cornell Univ. Med. Coll., New York, N.Y.

10021, United States

SOURCE: Cancer Treatment Reports, (1979) Vol. 63, No. 6, pp.

1115-1121. CODEN: CTRRDO

COUNTRY: United States

DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index

016 Cancer

LANGUAGE: English

ENTRY DATE: Entered STN: 911209

Last Updated on STN: 911209

Methionine sulfoximine inhibits the synthesis of glutamine, and also, by virtue of its inhibition of γ -glutamylcysteine synthetase, the synthesis of glutathione. The studies presented in this paper on methionine sulfoximine and its analogs have potential chemotherapeutic interest because there is evidence that depletion of a specific amino acid (e.g., asparagine or glutamine) may have beneficial therapeutic effects, and certain tumors (e.g., those of the liver, skin, and colon) exhibit high levels of γ -glutamyl transpeptidase, the enzyme that catalyzes the degradation of glutathione according to the γ -glutamyl cycle. Some tumors have high levels of glutathione, and both glutathione levels and γ -glutamyl transpeptidase activities are reported to be increased in tumors, as well as after administration of carcinogens. Inhibition of the γ -qlutamyl cycle, which has been postulated to play a role in the transport of amino acids, may reduce amino acid transport into certain tumors. Depletion of glutathione might make tumors more susceptible to radiation or chemotherapeutic agents. The γ -glutamyl derivatives of some chemotherapeutic agents might be transported into certain tumors more readily than the free agents. Specific inhibitors of the individual reactions of the γ -glutamyl cycle have been obtained. Substrate analogs have been found that function in some but not all of the reactions. Methionine sulfoximine inhibits glutamine synthetase and γ -glutamylcysteine synthetase irreversibly by forming enzyme-bound methionine sulfoximine phosphate. An understanding of the mechanisms of action of these enzymes and a knowledge of the topology of their active sites have led to the synthesis of two highly selective sulfoximine inhibitors. Thus, α -ethylmethionine sulfoximine was prepared and was found to inhibit glutamine synthetase in vitro and in vivo, but was also found to be essentially inactive toward γ -glutamylcysteine synthetase. Administration of α -ethylmethionine sulfoximine leads to substantial decreases in tissue qlutamine levels without affecting glutathione levels appreciably. Studies on the mapping of the active sites of the two synthetases led to the prediction that substitution of bulkier alkyl groups for the S-methyl group of methionine sulfoximine would yield a selective inhibitor of γ -glutamylcysteine synthetase. This prediction was fulfilled by the finding that prothionine sulfoximine (S-n-propyl homocysteine sulfoximine) is an excellent inhibitor of γ -glutamylcysteine synthetase and only a very weak inhibitor of glutamine synthetase. It has thus been possible, by suitable structural modification, to direct an inhibitor to one enzyme in preference to another very similar enzyme, despite the fact that both enzymes act by closely analogous mechanisms involving formation of the same enzyme-bound intermediate. This approach might be usefully applied to other powerful enzyme inhibitors such as azaserine or 6-diazo-5-oxo-L-norleucine, and thus might provide reagents that would inhibit specific enzyme targets.